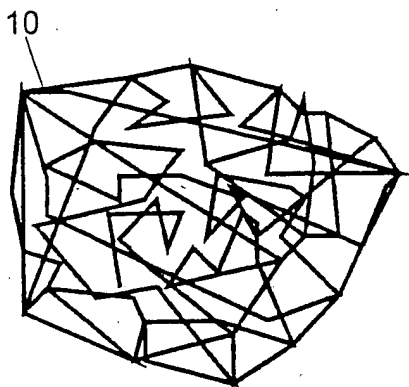
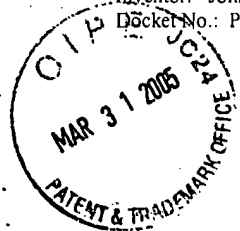
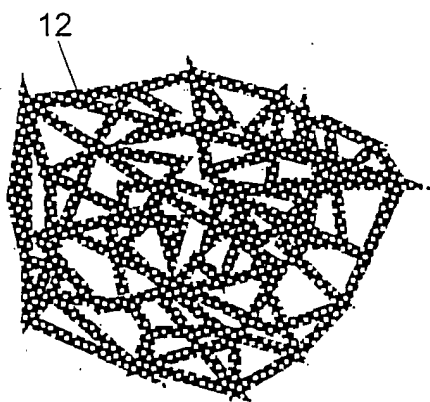


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**FIG. 1A**



**FIG. 1B**

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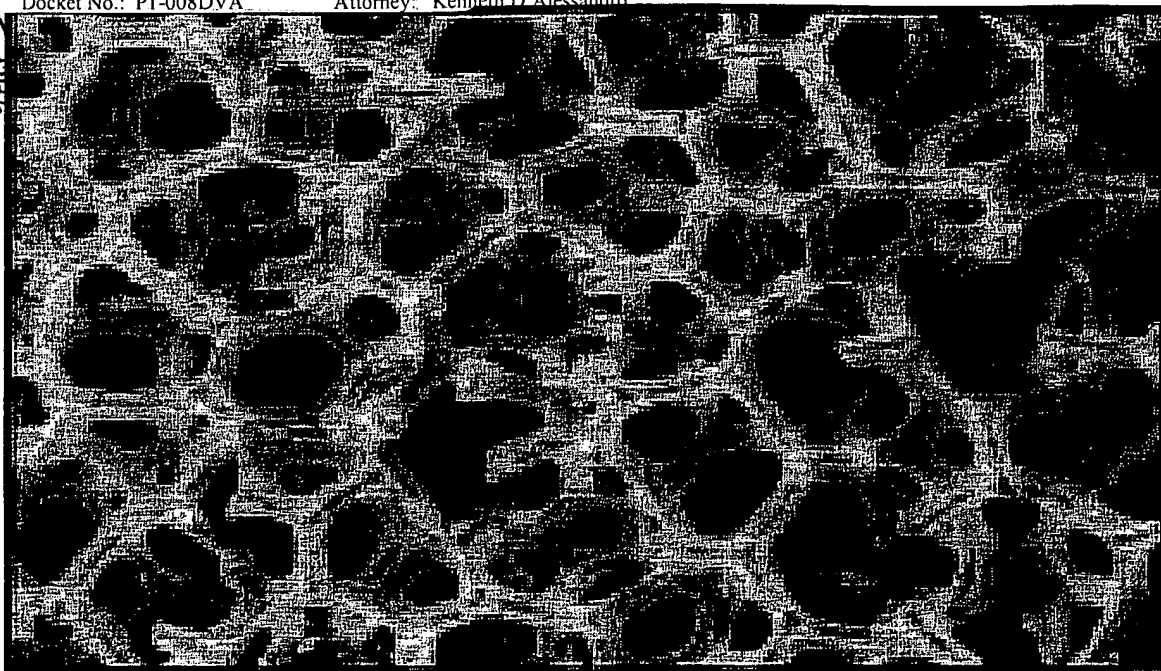
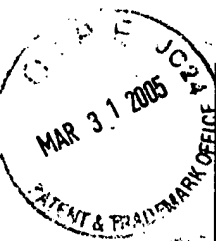


Figure 2A

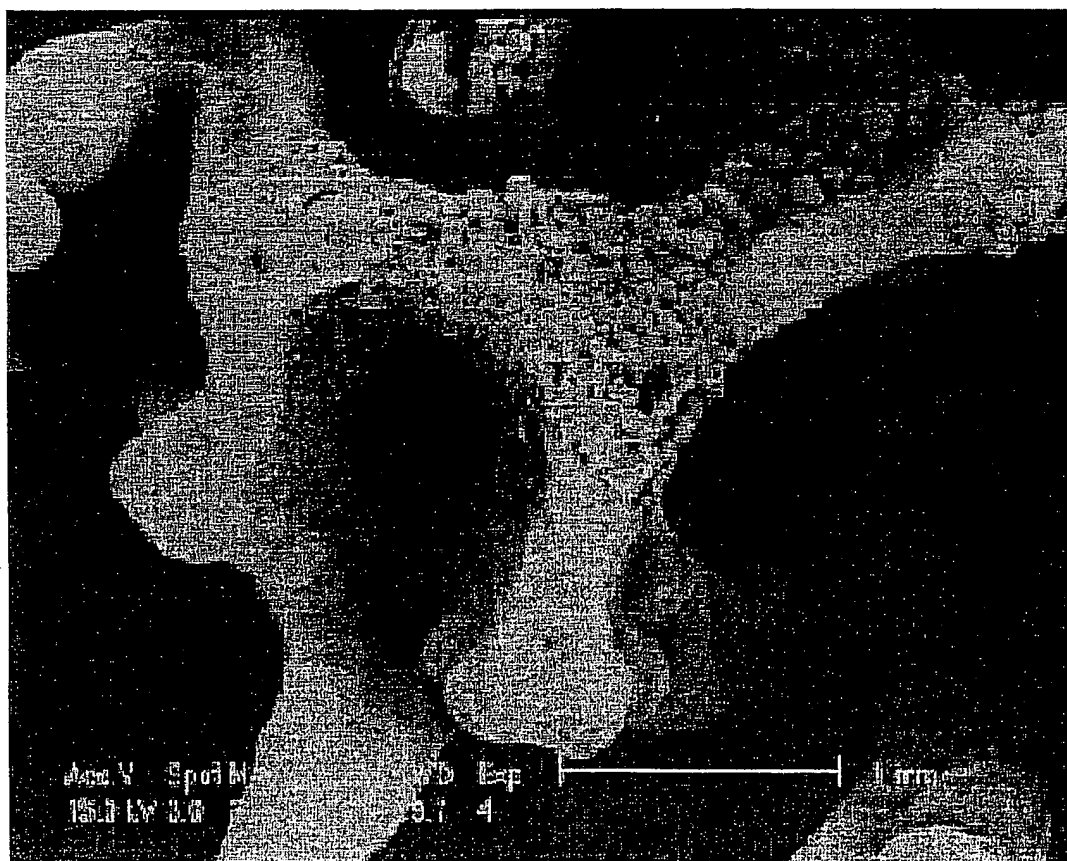
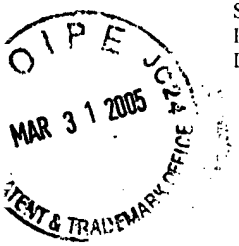


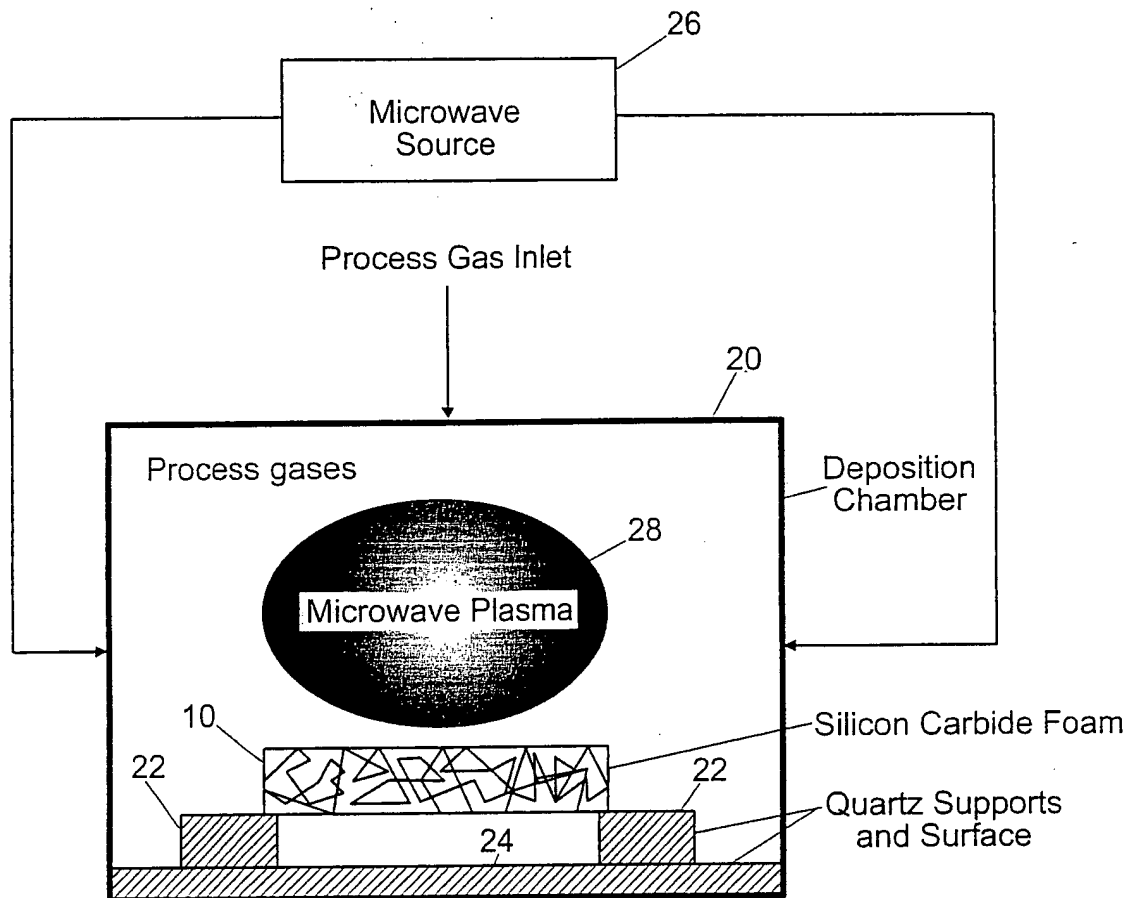
Figure 2B

Best Available Copy

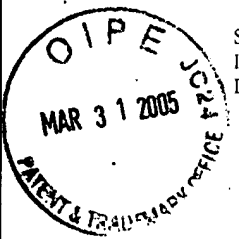


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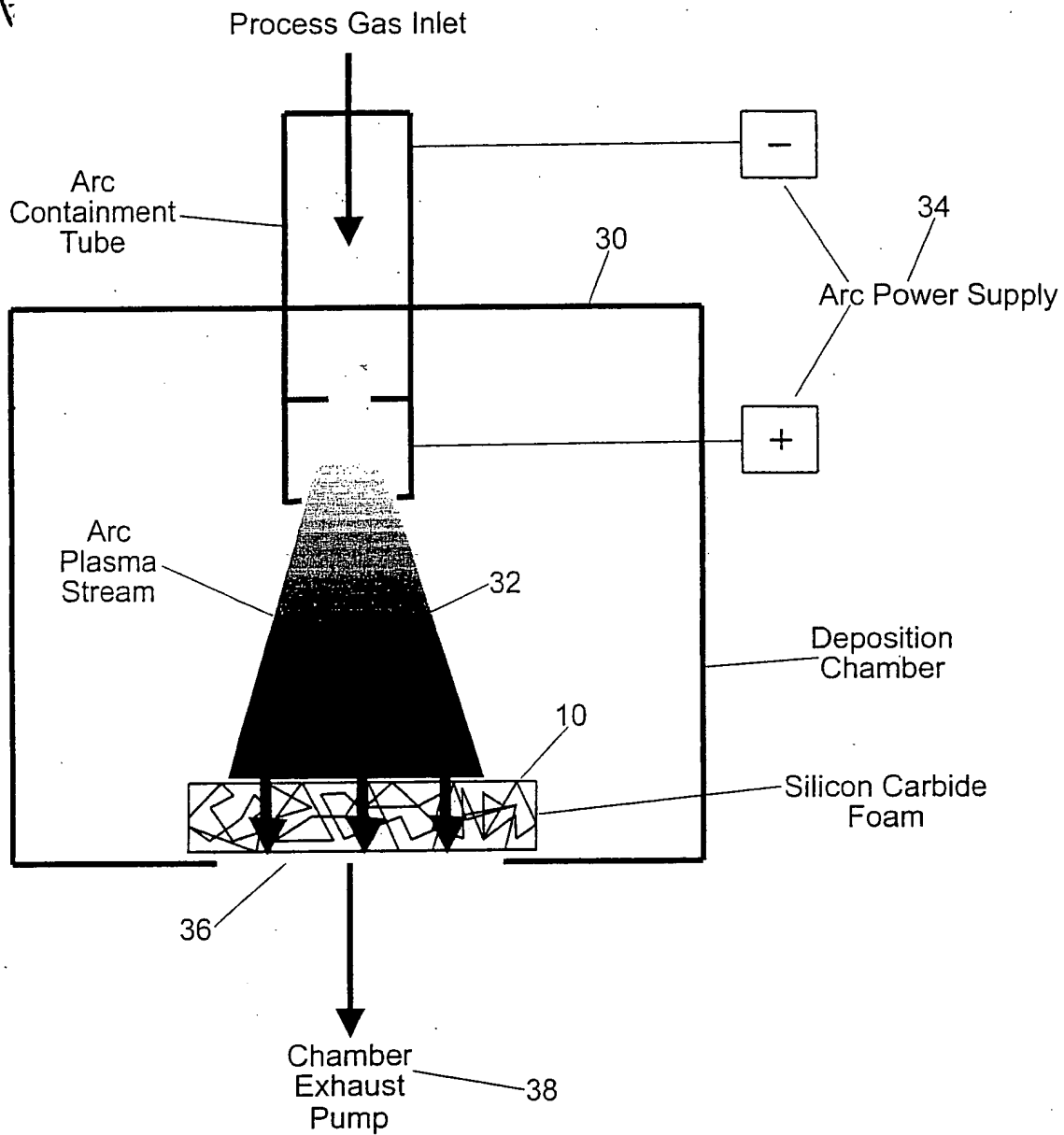


**FIG. 3**

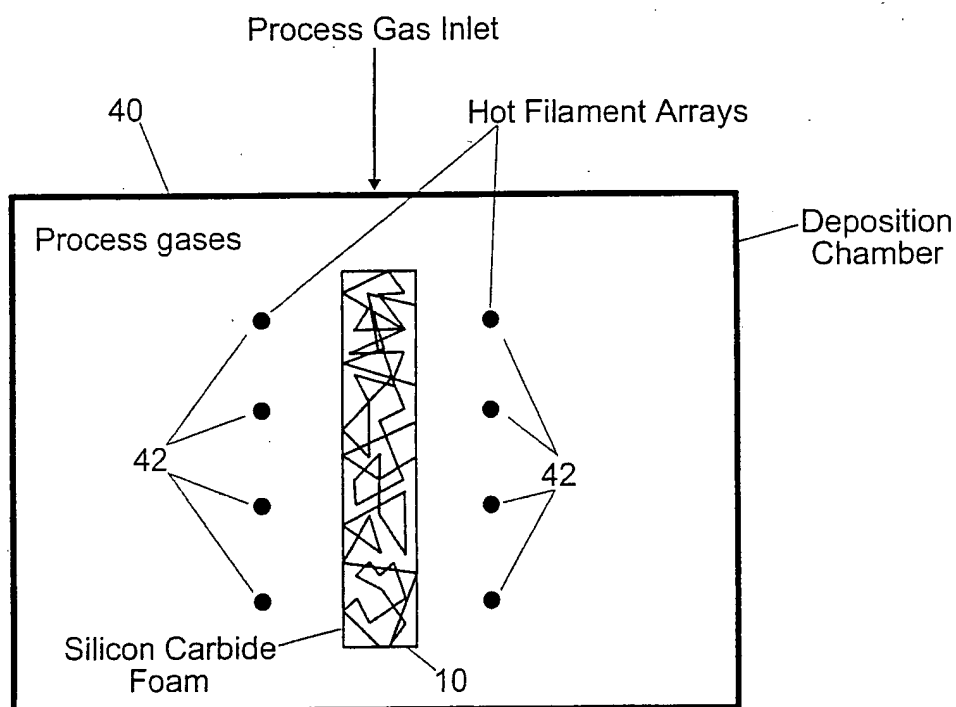
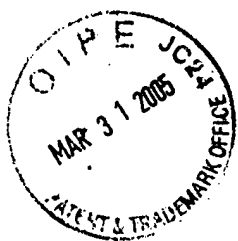


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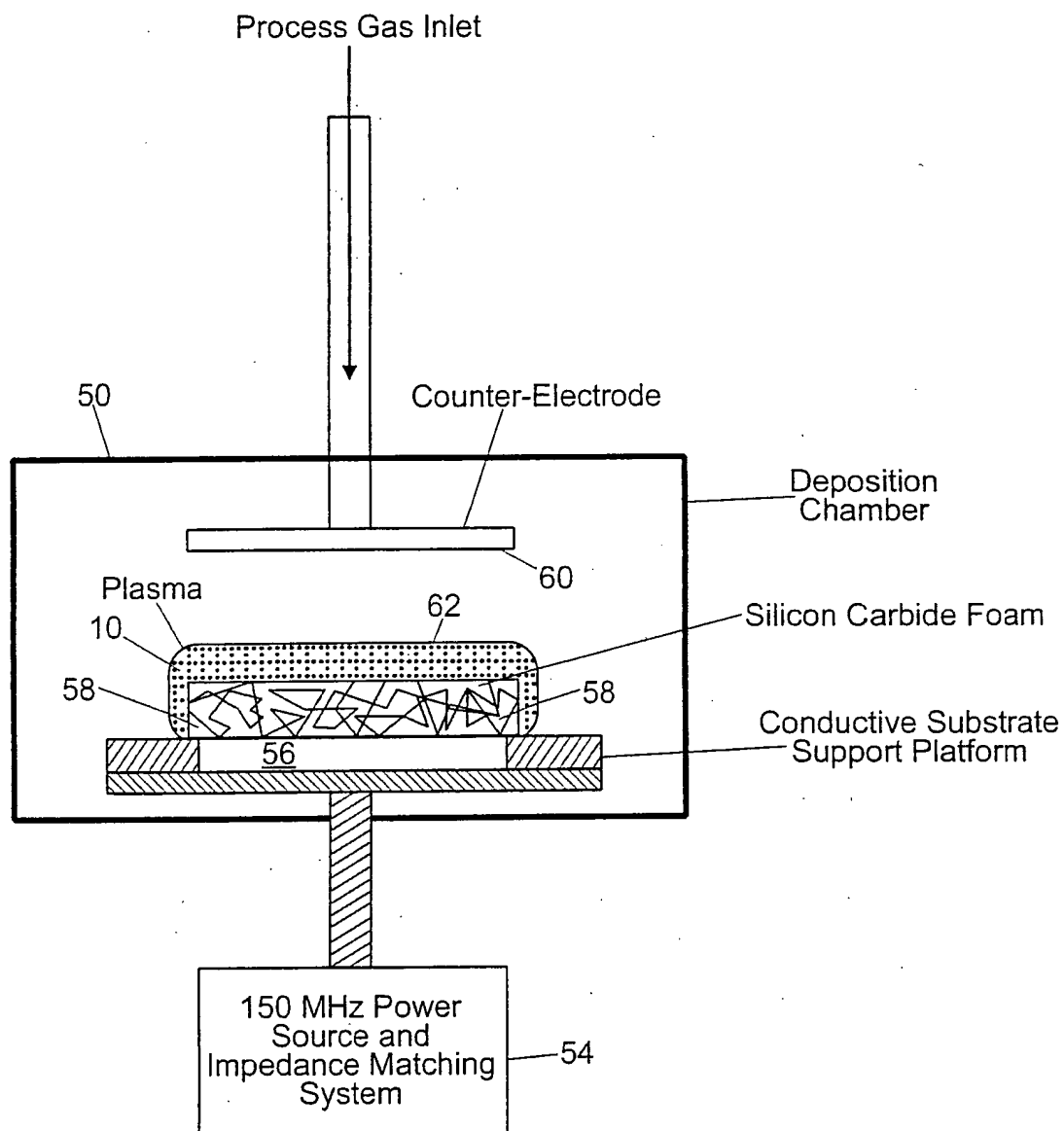
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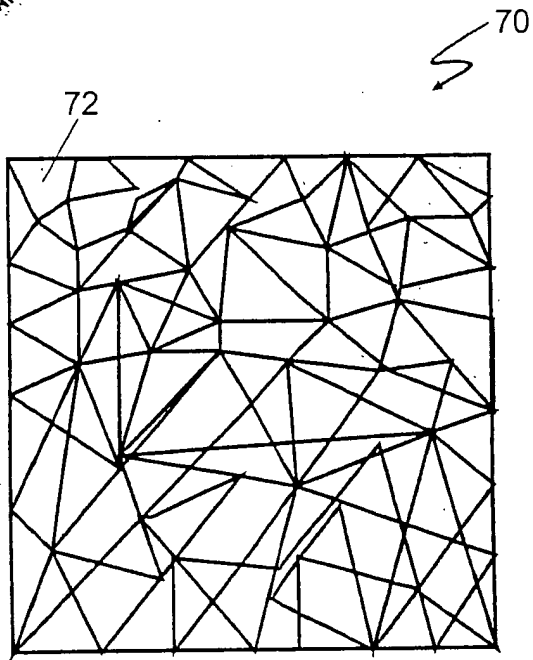
**FIG. 4**



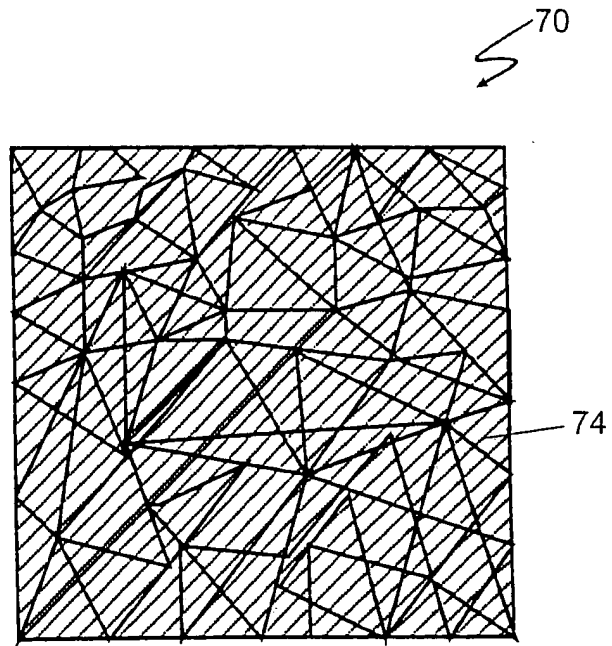
**FIG. 5**



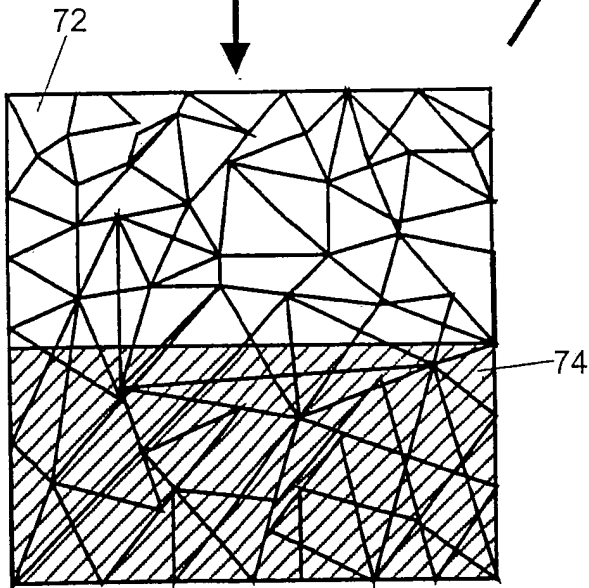
**FIG. 6**



**FIG. 7A**



**FIG. 7C**



**FIG. 7B**

Partial and Complete Infiltration

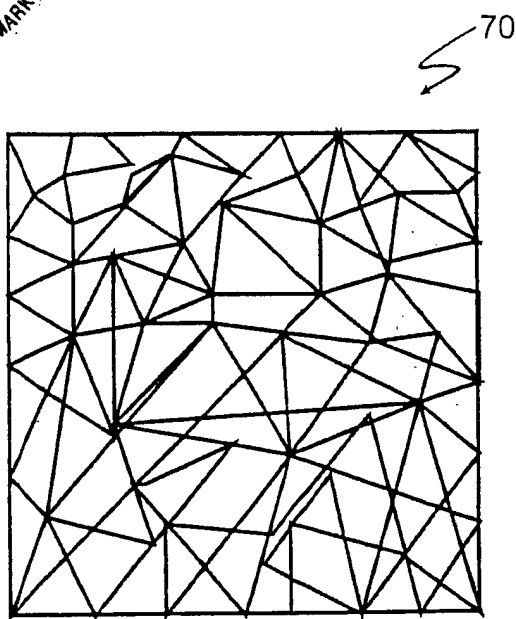


FIG. 8A

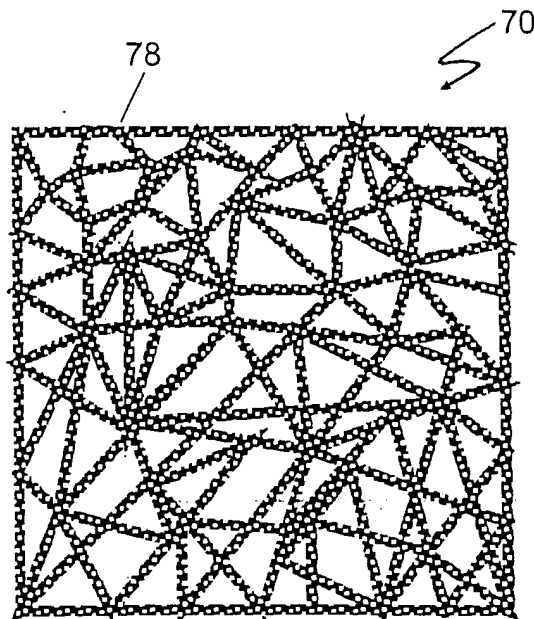


FIG. 8C

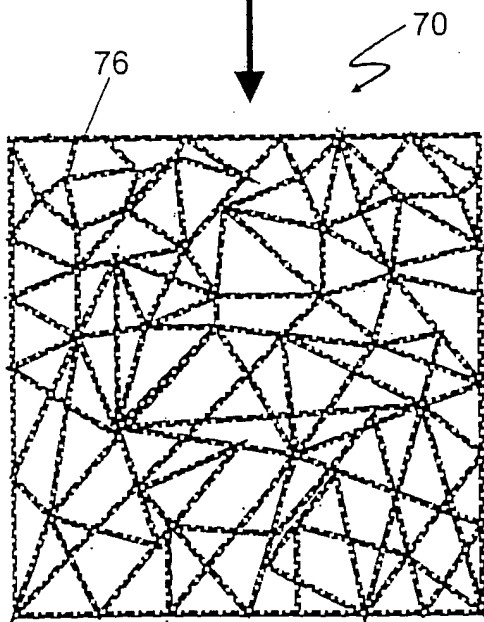


FIG. 8B

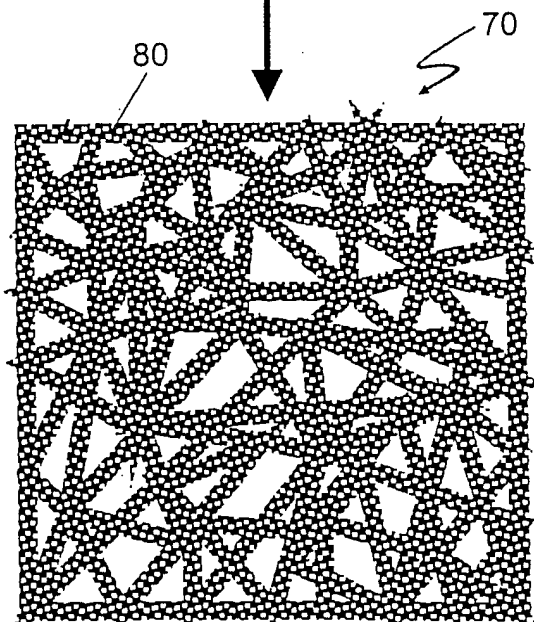
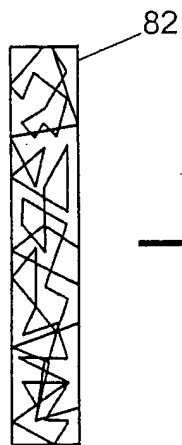


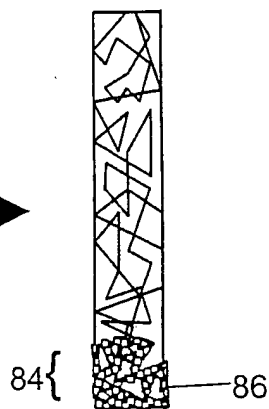
FIG. 8D

Dip Coating





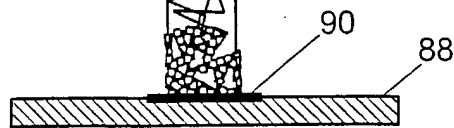
**FIG. 9A**



**FIG. 9B**



Soldering Diamond Foam to  
Additional Materials

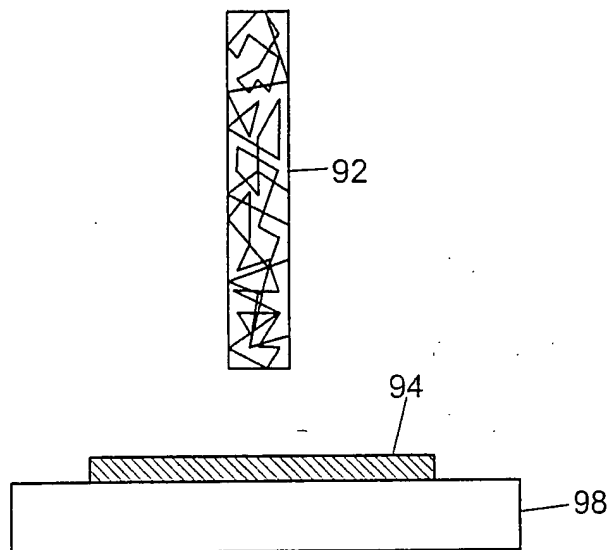


**FIG. 9C**

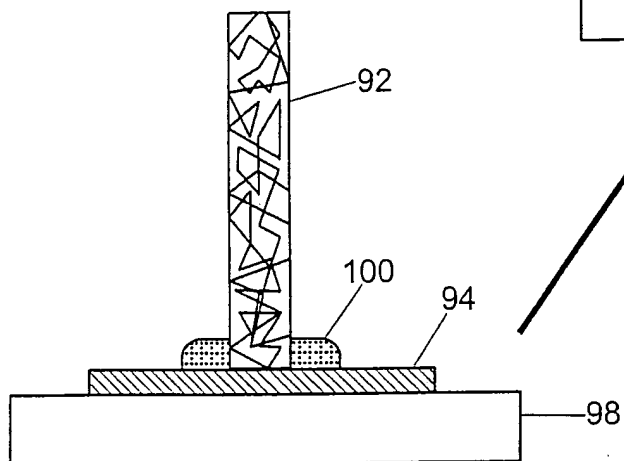


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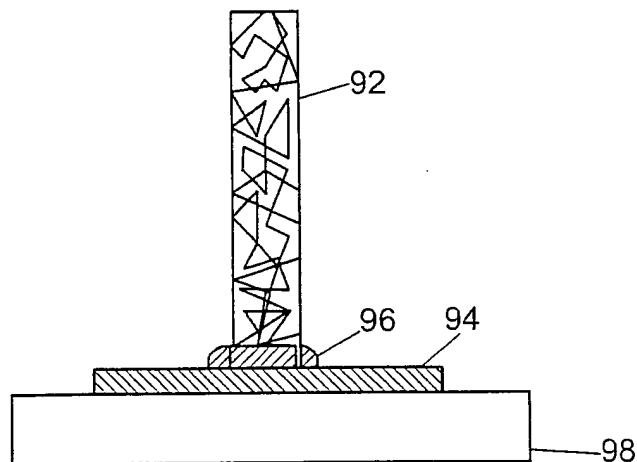
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**FIG. 10A**



**FIG. 10B**



**FIG. 10C**

Joining Diamond Foam to Diamond Film  
by Diamond Deposition